

IN THE SPECIFICATION

Please replace the paragraph beginning at page 3, line 15, with the following rewritten paragraph:

The first aspect of the present invention ~~as recited in claim 1~~ is that a magneto impedance sensor element with electromagnetic coil of the present invention comprises a terminal board on which an extended groove has been formed in one direction. Inside this extended groove one part of a coil has been formed, and joined to each tip of that coil the other part of the coil is placed across the top of the groove, so that together the two parts form a complete spiral. This complete electromagnetic coil forms a magnetic sensitive body, which is inserted into the extended groove on the above terminal board and surrounded with insulating resin. When either high frequency or pulse electrical current is applied to the magnetic sensitive body, voltage is output from the above electromagnetic coil in response to the intensity of the external magnetic field generated in the electromagnetic coil.

Please replace the paragraph beginning at page 4, line 7, with the following rewritten paragraph:

The second aspect of the present invention~~[[,]] as recited in claim 2[[,]]~~ is that the magneto impedance sensor element with electromagnetic coil uses conductive magnetic amorphous metal wire to create the magnetic sensitive body in the first aspect of the invention.

Please replace the paragraph beginning at page 4, line 12, with the following rewritten paragraph:

The third aspect of the present invention~~[[,]] as recited in claim 3[[,]]~~ is that the inner coil diameter of the electromagnetic coil mentioned in the second aspect of the invention is

not more than 200 micrometers.

Please replace the paragraph beginning at page 4, line 16, with the following rewritten paragraph:

The fourth aspect of the present invention[[,]] ~~as recited in claim 4~~[[,]] is that the electromagnetic coil mentioned in the third aspect of the invention has a line spacing separation per turn of not more than 100 micrometers.

Please replace the paragraph beginning at page 4, line 20, with the following rewritten paragraph:

The fifth aspect of the present invention[[,]] ~~as recited in claim 5~~[[,]] is that the length of the magnetic sensitive body mentioned in the second aspect of the invention is set at not more than 3 mm.

Please replace the paragraph beginning at page 4, line 24, with the following rewritten paragraph:

The sixth aspect of the present invention[[,]] ~~as recited in claim 6~~[[,]] is that the ratio of wire diameter to wire length used in the magnetic sensitive body mentioned in the second aspect of the invention is set at an aspect ratio from 10 to 100.

Please replace the paragraph beginning at page 5, line 5, with the following rewritten paragraph:

The seventh aspect of the present invention[[,]] ~~as recited in claim 7~~[[,]] is that the inner coil diameter of the electromangetic coil mentioned in the sixth aspect of the invention is set from 1.005 to 10 times the wire diameter of the magnetic sensitive body.

Please replace the paragraph beginning at page 5, line 10 with the following rewritten paragraph:

The eighth aspect of the present invention[[,]] ~~as recited in claim 8~~[[,]] is that the inner coil diameter of the electromagnetic coil mentioned in aspect 2 of the invention is not more than 100 micrometers.

Please replace the paragraph beginning at page 5, line 14 with the following rewritten paragraph:

The ninth aspect of the present invention[[,]] ~~as recited in claim 9~~[[,]] is that the electromagnetic coil mentioned in the third aspect of the invention has a line spacing separation per turn of not more than 50 micrometers.

Please replace the Abstract beginning at page 32 with the following rewritten Abstract: